

Work Order ID 80159

80159

Monday, February 13, 2012 8:24:47 AM

Ship Eagle End Feb
Page 1

Item ID: D412-702-021

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: 13-Man Shoulder Harness, 4 point

Stop *NS2*

Start Date: 2/13/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/17/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: *CMF*

Date: 2-02-13 Tooling:

Date:

Run Start *NR1*

QC:

Date: SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

N/A

Rev N/A

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-702-021 CHG003

8/12/12/27

MLJ 12/02/13

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

SP 12-02-13. SP

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

8/12/12/27

✓ **Work Order ID 80159**

80159

Page 2

Monday, February 13, 2012 8:24:47 AM

Item ID: D412-702-021

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Item Name: 13-Man Shoulder Harness, 4 point

Stop ***NS2***

Start Date: 2/13/2012 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 2/17/2012 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: Date:

Tooling: Date:

Run Start ***NR1***

QC: Date:

SPC (Y/N): Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan Accept Reject Reject Insp.
Code Qty Qty Number Stamp

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-702-021

Location: *Reus*

12/12/27

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

MLJ 12/02/27

ME 12-02-27

Picklist Print

Monday, February 13, 2012 8:24:46 AM

Work Order ID: 80159

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/13/2012

Required Date: 2/17/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B Removed Manufacturing 05-11-08 JLM
 IPP Rev:C06.04.03As per DSI9324 JLM
 IPP rev D 06.12.14 per ecn 871 EC
 IPP Rev:E 07-03-14 As per DSI 9351 JLM
 IPP Rev:F 07-07-28 As per Rev E JLM Verified By:ec IPP Rev.G 11.05.31 DSI
 9559 EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-13A Bolt		Purchased	No			120	Each	1,357.0000	4	4			SP
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST357		1357							
				119449		59							
				120187		798			4x				
				120422		500							
AN4-20A Bolt		Purchased	No			120	Each	585.0000	8	8			SP
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				GA		76							
				116419		76							
				ST359		509			8x				
				104016		24							
				117514		185							
				118983		100							
				119127		200							
AN4-5A Bolt		Purchased	No			120	Each	1,096.0000	4	4			SP 12-02-13
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST355		1096							
				116549		6							
				117508		90			4x				
				120562		1000							

Picklist Print

Monday, February 13, 2012 8:24:46 AM

Page 2

Work Order ID: 80159

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/13/2012

Required Date: 2/17/2012

Start Qty: 1.00

Required Qty: 1.00

AN960JD416 Washer Purchased No

120 Each 8.0000

20

MILITARY SP

Location

Loc Qty

Loc Code

ST351

8

116289

8

D3195-041

Manufactured No

120 Each 0.0000

2

2

762070

Bracket Assembly

D3195-043

Manufactured No

120 Each 11.0000

2

2

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

11

76210

10

77739

1

D3196-1

Manufactured No

120 Each 4.0000

Bar

Location

Loc Qty

Loc Code

ST260

4

79094

4

D3196-3

Manufactured No

120 Each 1.0000

Bar

Location

Loc Qty

Loc Code

ST260

1

77746

1

D3196-4

Manufactured No

120 Each 2.0000

Bar

Location

Loc Qty

Loc Code

ST260

2

79108

2

D3197-041

Manufactured No

120 Each 0.0000

Bar Assembly

1X

278918 SP

12-02-13

Monday, February 13, 2012 8:24:46 AM

Shop Packet Print

Page 2

Picklist Print

Monday, February 13, 2012 8:24:46 AM

Page 3

Work Order ID: 80159

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/13/2012

Required Date: 2/17/2012

Start Qty: 1.00

Required Qty: 1.00

D3198-1
Fitting

Manufactured No

120 Each 12.0000

4 SP 4

Location

Loc Qty

Loc Code

ST246A

12

79155

12

2 4x 2

D3268-1
Placard

Manufactured No

120 Each 8.0000

2 2

Location

Loc Qty

Loc Code

ST246A

8

76058

8

2 2x 2

D3546-1
Clip

Manufactured No

120 Each 14.0000

2 2

Location

Loc Qty

Loc Code

ST245

14

73444

14

13 2x 300132 3x

D3551-11
Hook and Loop Tie

Manufactured No

120 Each 10.0000

13

Location

Loc Qty

Loc Code

ST246A

10

79156

10

1 10x SP

D412-702-069
Grömmet

Manufactured No

120 Each 5.0000

1

Location

Loc Qty

Loc Code

FG125

5

79506

5

1x

D4387-041
Harness Assembly

Manufactured No

120 Each 29.0000

9

Location

Loc Qty

Loc Code

quar

5

72273

5

ST263

24

77953

24

9x

Monday, February 13, 2012 8:24:47 AM

Shop Packet Print

Page 3

Picklist Print

Monday, February 13, 2012 8:24:47 AM

Page 4

Work Order ID: 80159

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/13/2012

Required Date: 2/17/2012

Start Qty: 1.00

Required Qty: 1.00

D4387-043

Harness Assembly

Manufactured No

120 Each 8.0000

4

SP

SP

Location

Loc Qty

Loc Code

ST263

8

78160

8

4x

MS21042L4

Nut

Purchased No

120 Each 5,393.0000

12

SP

SP

Location

Loc Qty

Loc Code

ST300

5393

117441

51

117601

157

118451

133

119017

200

119075

4852

12x

MS24694-S152

Screw

Purchased No

120 Each 39.0000

8

SP

SP

Location

Loc Qty

Loc Code

ST290

39

116440

1

119108

38

8x

MS24694-S154

SCREW

Purchased No

120 Each 53.0000

8

SP 12-03-13

SP

Location

Loc Qty

Loc Code

ST289A

25

120498

25

ST290

28

119022

28

8x

Monday, February 13, 2012 8:24:47 AM

Shop Packet Print

Page 4

QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4	4					D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS
REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	/ D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		CHG 002 and subsequent
	D412-702-027		
	D412-702-029		
D3446-043	✓ D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent






Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.		BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNES CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	